

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/544,525

DATE: 12/01/2000
TIME: 08:16:31

Input Set : A:\408.app
Output Set: N:\CRF3\12012000\I544525.raw

4 <110> APPLICANT: Luche, Ralf M.
5 Wei, Bo
8 <120> TITLE OF INVENTION: DSP-3 DUAL-SPECIFICITY PHOSPHATASE
11 <130> FILE REFERENCE: 200125.408
13 <140> CURRENT APPLICATION NUMBER: US/09/544,525
14 <141> CURRENT FILING DATE: 2000-04-06
16 <160> NUMBER OF SEQ ID NOS: 18
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 875
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1

26 cccccccgcgt cctccctccct gtaacatgcc atagtgcgcc tgcgaccaca cggccggggc 60
27 gctagcgttc gccttcagcc accatggggaa atggatgaa caagatctg cccggcctgt 120
28 acatcgccaa cttccaaagat gccagagacg cggaaacauatt gagcaagaac aagggtgacac 180
29 atattctgtc tggccacatg agtccacggat tatgtggag gacaagacat ttcaaaagaaa 240
30 gtattnaaatt cattcagcag tggccgtccg ggggtggagat ctgccttgcatactgcctgt 300
31 cccgggtctc caggagcgtg acactgggtga tgcatacat catgaccgtc actgactttg 360
32 gctggggagga tggccctgcac accgtgcgtg cggggagatc ctgtgccaac cccaaacgtgg 420
33 gcttccagatc acatgtccatc gagtttggaa agcatgtggat ccatcgttat cggcagtggc 480
34 tgaaggaaga atatggagaa agcccccttgc aggatgcaga agaaggccaa aacattctgg 540
35 ccgtctccagg aattctgtc ttctggccct ttctcagaag actgttaatgt acctgtggat 600
36 tctgaaatat tgc当地acccg cagatgtttaq gctgtgtgtc cccaaaagaa aagcaacata 660
37 gagtttaagt atccatgtt gatgttggaaa cttgttttgc atttgtggat gaatataac 720
38 gtagtcatgt ttatgttggaa aactaaggat atccatgttgc aagagaaaat atttccctt 780
39 tatccccactg gctgtggagg ttctgttacc tgcgtgtggat gctgtgtggaa atcccgggag 840
40 ctttgcggca ctgccttgcgttgg ggtgggttgg cgctc 875

42 <210> SEQ ID NO: 2
43 <211> LENGTH: 167
44 <212> TYPE: PRT
45 <213> ORGANISM: Homo sapiens
47 <400> SEQUENCE: 2
48 Met Gly Asn Gly Met Asn Lys Ile Leu Pro Gly Leu Tyr Ile Gly Asn
49 1 5 10 15
50 Phe Lys Asp Ala Arg Asp Ala Glu Gln Leu Ser Lys Asn Lys Val Thr
51 20 25 30
52 His Ile Leu Ser Val His Asp Ser Pro Gly Leu Cys Trp Arg Thr Arg
53 35 40 45
54 His Phe Lys Glu Ser Ile Lys Phe Ile His Glu Cys Arg Leu Arg Gly
55 50 55 60
56 Glu Ser Cys Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr
57 65 70 75 80
58 Leu Val Ile Ala Tyr Ile Met Thr Val Thr Asp Phe Gly Trp Glu Asp
59 85 90 95
60 Ala Leu His Thr Val Arg Ala Gly Arg Ser Cys Ala Asn Pro Asn Val
61 100 105 110

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62 Gly Phe Gln Arg Gln Leu Gln Glu Phe Glu Lys His Glu Val His Gln
63 115 120 125
64 Tyr Arg Gln Trp Leu Lys Glu Glu Tyr Gly Glu Ser Pro Leu Gln Asp
65 130 135 140
66 Ala Glu Glu Ala Lys Asn Ile Leu Ala Ala Pro Gly Ile Leu Lys Phe
67 145 150 155 160
68 Trp Ala Phe Leu Arg Arg Leu
69 165
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 10
73 <212> TYPE: PRT
74 <213> ORGANISM: Homo sapien
76 <400> SEQUENCE: 3
77 Val His Cys Leu Ala Gly Val Ser Arg Ser
78 1 5 10
80 <210> SEQ ID NO: 4
81 <211> LENGTH: 23
82 <212> TYPE: PRT
83 <213> ORGANISM: Homo sapien
85 <400> SEQUENCE: 4
86 Gly Arg Val Leu Val His Cys Gln Ala Gly Ile Ser Arg Ser Gly Thr
87 1 5 10 15
88 Asn Ile Leu Ala Tyr Leu Met
89 20
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 24
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
98 DSP-3
100 <400> SEQUENCE: 5
101 gacctcatgc ttctcaact cctg 24
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 21
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
110 DSP-3
112 <400> SEQUENCE: 6
113 cgatcacccag tgtcacgctc c 21
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 26
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
122 DSP-3

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124 <400> SEQUENCE: 7
 125 cagaatatgt gtcacccgt tcttgc 26
 127 <210> SEQ ID NO: 8
 128 <211> LENGTH: 26
 129 <212> TYPE: DNA
 130 <213> ORGANISM: Artificial Sequence
 132 <220> FEATURE:
 133 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
 134 DSP-3
 136 <400> SEQUENCE: 8
 137 gcaagaacaa ggtgacacat attc tg 26
 139 <210> SEQ ID NO: 9
 140 <211> LENGTH: 28
 141 <212> TYPE: DNA
 142 <213> ORGANISM: Artificial Sequence
 144 <220> FEATURE:
 145 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
 146 DSP-3
 148 <400> SEQUENCE: 9
 149 ggaaatggaa tgaacaagat cctgcccc 28
 151 <210> SEQ ID NO: 10
 152 <211> LENGTH: 37
 153 <212> TYPE: DNA
 154 <213> ORGANISM: Artificial Sequence
 156 <220> FEATURE:
 157 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
 158 DSP-3
 160 <400> SEQUENCE: 10
 161 cagtcttc tg agaaqgccc agaacttcag aattcct 37
 163 <210> SEQ ID NO: 11
 164 <211> LENGTH: 170
 165 <212> TYPE: PRT
 166 <213> ORGANISM: Homo sapiens
 168 <400> SEQUENCE: 11
 169 Ser Asp Leu Asp Arg Asp Pro Asn Ser Ala Thr Asp Ser Asp Gly Ser
 170 1 5 10 15
 171 Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val Glu Ile Leu Pro Phe
 172 20 25 30
 173 Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Glu
 174 35 40 45
 175 Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn
 176 50 55 60
 177 Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile Pro Ile Ser
 178 65 70 75 80
 179 Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser
 180 85 90 95
 181 Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly Val Leu Val His Cys
 182 100 105 110
 183 Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met

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184 115 120 125
185 Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr Asp Ile Val Lys Met
186 130 135 140
187 Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu
188 145 150 155 160
189 Asp Phe Glu Arg Thr Leu Gly Leu Ser Ser
190 165 170
192 <210> SEQ ID NO: 12
193 <211> LENGTH: 168
194 <212> TYPE: PRT
195 <213> ORGANISM: Homo sapiens
197 <400> SEQUENCE: 12
198 Asp Arg Glu Leu Pro Ser Ser Ala Thr Glu Ser Asp Gly Ser Pro Val
199 1 5 10 15
200 Pro Ser Ser Gln Pro Ala Phe Pro Val Gln Ile Leu Pro Tyr Leu Tyr
201 20 25 30
202 Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Gly Lys Tyr
203 35 40 45
204 Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn Ala Phe
205 50 55 60
206 Glu His Gly Glu Phe Thr Tyr Lys Gln Ile Pro Ile Ser Asp His
207 65 70 75 80
208 Trp Ser Gln Asn Leu Ser Gln Phe Pro Glu Ala Ile Ser Phe Ile
209 85 90 95
210 Asp Glu Ala Arg Ser Lys Lys Cys Gly Val Leu Val His Cys Leu Ala
211 100 105 110
212 Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met Gln Lys
213 115 120 125
214 Met Asn Leu Ser Leu Asn Asp Ala Tyr Asp Phe Val Lys Arg Lys Lys
215 130 135 140
216 Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu Asp Phe
217 145 150 155 160
218 Glu Arg Thr Leu Gly Leu Ser Ser
219 165
221 <210> SEQ ID NO: 13
222 <211> LENGTH: 168
223 <212> TYPE: PRT
224 <213> ORGANISM: Homo spaiens
226 <400> SEQUENCE: 13
227 Pro Ala Gln Ala Leu Pro Pro Ala Gly Ala Glu Asn Ser Asn Ser Asp
228 1 5 10 15
229 Pro Arg Val Pro Ile Tyr Asp Gln Gly Pro Val Glu Ile Leu Pro
230 20 25 30
231 Tyr Leu Tyr Leu Gly Ser Cys Asn His Ser Ser Asp Leu Gln Gly Leu
232 35 40 45
233 Gln Ala Cys Gly Ile Thr Ala Val Leu Asn Val Ser Ala Ser Cys Pro
234 50 55 60
235 Asn His Phe Glu Gly Leu Phe His Tyr Lys Ser Ile Pro Val Glu Asp
236 65 70 75 80

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237 Asn Gln Met Val Glu Ile Ser Ala Trp Phe Gln Glu Ala Ile Ser Phe
 238 85 90 95
 239 Ile Asp Ser Val Lys Asn Ser Gly Gly Arg Val Leu Val His Cys Gln
 240 100 105 110
 241 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Ile Gln
 242 115 120 125
 243 Ser His Arg Val Arg Leu Asp Glu Ala Phe Asp Phe Val Lys Gln Arg
 244 130 135 140
 245 Arg Gly Val Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
 246 145 150 155 160
 247 Leu Glu Thr Gln Val Leu Cys His
 248 165
 250 <210> SEQ ID NO: 14
 251 <211> LENGTH: 169
 252 <212> TYPE: PRT
 253 <213> ORGANISM: Homo sapiens
 255 <400> SEQUENCE: 14
 256 Pro Leu Ser Thr Ser Val Pro Asp Ser Ala Glu Ser Gly Cys Ser Ser
 257 1 5 10 15
 258 Cys Ser Thr Pro Leu Tyr Asp Gln Gly Pro Val Glu Ile Leu Pro
 259 20 25 30
 260 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ser Arg Lys Asp Met Leu
 261 35 40 45
 262 Asp Ala Leu Gly Ile Thr Ala Leu Ile Asn Val Ser Ala Asn Cys Pro
 263 50 55 60
 264 Asn His Phe Glu Gly His Tyr Gln Tyr Lys Ser Ile Pro Val Glu Asp
 265 65 70 75 80
 266 Asn His Lys Ala Asp Ile Ser Ser Trp Phe Asn Glu Ala Ile Asp Phe
 267 85 90 95
 268 Ile Asp Ser Ile Lys Asn Ala Gly Arg Val Phe Val His Cys Gln
 269 100 105 110
 270 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Arg
 271 115 120 125
 272 Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Gln Phe Val Lys Gln Arg
 273 130 135 140
 274 Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
 275 145 150 155 160
 276 Phe Glu Ser Gln Val Leu Ala Pro His
 277 165
 279 <210> SEQ ID NO: 15
 280 <211> LENGTH: 169
 281 <212> TYPE: PRT
 282 <213> ORGANISM: Homo sapiens
 284 <400> SEQUENCE: 15
 285 Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser
 286 1 5 10 15
 287 Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
 288 20 25 30
 289 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu

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